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Date of birth: October 8, 1964, Toulon, France  
Married, 3 children  
Nationality: French, Swiss  
Language: French, English, some German

## **EDUCATION AND RESEARCH EXPERIENCE**

1984: Fellow of the Ecole Normale Supérieure (Paris), Biology Section  
1986-90: Ph.D. degree in Dr. J. Davoust's laboratory  
86-88: European Molecular Biology Laboratory (Heidelberg, Germany)  
88-90: Centre d'Immunologie de Marseille-Luminy (Marseille, France)  
"Mechanisms of formation of intracellular transport vesicles"  
1990-1992: EMBO Post-doctoral fellow in Dr. R. Klausner's laboratory  
(National Institute of Health, Washington, USA)  
"Transmembrane determinants for assembly and intracellular transport"  
1992-1997: Member of the Basel Institute for Immunology (Basel, Switzerland)  
"Mechanisms of membrane sorting in the secretory pathway"  
1997-present: Group leader at the University of Geneva (Switzerland)  
(since 2007 Full professor)  
"Phagocytosis and host-pathogen interactions"

## **TEACHING**

- 2016: Founder and academic coordinator of the new Bachelor/Master in Biomedical Sciences of the Geneva Faculty of Medicine
- Cell Biology course to 1st year medical students and to paramedical students
- Tutorial teaching to 2nd year medical students
- Practical course of histology to 2nd and 3rd year medical students
- Writing workshop to medical and biomedical students
- Oral skills to biomedical students

## **INSTITUTIONAL ROLES**

- Since 2016: Member of the Bureau de la Commission d'Eenseignement
- Since 2016: President of the Commission d'Opposition

## **OTHERS**

2018: Creation and Editor-in-chief of the scientific journal Antibody Reports  
2017: Creation of the ABCD database  
2015: Creation and academic coordinator of the Geneva Antibody Facility  
2004: Prix Naef for In vitro Research.  
2002: Cofounder of Athelas SA, a biotechnology company dedicated to the search for new anti-infective drugs.  
2001: Patent filing: The use of *Dictyostelium* amoeba to study pathogen virulence.  
1990: French translation of Ivan Roitt's "Essential Immunology", sixth edition, chapters 3 to 9 and of "Antibodies", chapters 6 to 9. Editions Pradel.  
1986: Geography section of Memo-Bac 87. Editions Phillipine.

*1996-2019* : 15 review articles in French for the general public in Biofutur, Médecine et Science, and La Revue médicale Suisse.

**PUBLICATIONS**

Cosson, P, de Curtis, I, Pouyssegur, J, Griffiths, G and J Davoust. 1989. Low cytoplasmic pH inhibits endocytosis and transport from the trans-Golgi network to the cell surface. **J. Cell Biol.** 108: 377-87.

Salamero, J, Humbert, M, Cosson, P and J Davoust. 1990. Mouse B lymphocyte specific endocytosis and recycling of MHC class II molecules. **EMBO J.** 9:3498-96.

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Cosson, P, Lankford, SP, Bonifacino, JS and RD Klausner. 1991. Membrane protein association by potential intramembrane charge pairs. **Nature.** 351:414-16.

Bonifacino, JS, Cosson, P, Shah, N and RD Klausner. 1991. Role of potentially charged transmembrane residues in targeting proteins for degradation within the endoplasmic reticulum. **EMBO J.** 10:2783-93.

Rutledge, T, Cosson, P, Manolios, N, Bonifacino, JS and RD Klausner. 1991. Transmembrane helical interactions : zeta chain dimerization and functional association with the T cell antigen receptor. **EMBO J.** 11:3245-54.

Cosson, P and JS Bonifacino. 1992. Role of transmembrane interactions in the assembly of class II MHC molecules. **Science.** 258:659-62.

Lankford, SP, Cosson, P and RD Klausner. 1993. Transmembrane domain length affects charge-mediated retention and degradation of proteins within the endoplasmic reticulum. **J. Biol. Chem.** 268:4814-20.

Humbert, M, Raposo, G, Cosson, P, Reggio, H, Davoust, J and J Salamero. 1993. The invariant chain induces compact forms of class II molecules localized in late endosomal compartments. **Eur. J. Immunol.** 23:3158-66.

Hennecke, S and P Cosson. 1993. Role of transmembrane domains in assembly and transport of the CD8 molecule. **J. Biol. Chem.** 268:26607-12.

Bonnerot, C, Marks, MS, Cosson, P, Robertson, EJ, Bikoff, EK, Germain, RN and JS Bonifacino. 1994. Association with BiP and aggregation of class II MHC molecules synthesized in the absence of invariant chain. **EMBO J.** 13: 934-944.

Cosson, P and F Letourneur. 1994. Coatamer interaction with di-lysine endoplasmic reticulum retention motifs. **Science.** 263:1629-1631.

Letourneur, F, Gaynor, EC, Hennecke, S, Démollière, C, Duden, R, Emr, SD, Riezman, H, Cosson, P. 1994. Coatamer is essential for retrieval of di-lysine-tagged proteins to the endoplasmic reticulum. **Cell.** 79:1199-1207.

Letourneur, F, Hennecke, S, Démollière, C, Cosson, P. 1995. Steric masking of a di-lysine endoplasmic reticulum retention motif during assembly of the human FcεRI. **J. Cell Biol.** 129:971-978.

Cosson, P, Démollière, C, Hennecke, S, Duden, R, Letourneur, F. 1996.  $\square$  and  $\square$ -COP, two coatomer subunits homologous to clathrin adaptors, are involved in ER retrieval. **EMBO J.** 15:1792-1798.

Cosson, P. 1996. Direct interaction between the envelope and matrix proteins of HIV-1. **EMBO J.** 15: 5783-5788.

Cosson, P, Schröder-Köhne, S, Sweet, DS, Démollière, C, Hennecke, S, Frigerio, G, Letourneur, F. 1997. The Sec20/Tip20p complex is involved in ER retrieval of dilysine-tagged proteins. **Eur. J. Cell Biol.** 73:93-97.

Ohno, H, Aguilar, RC, Fournier, MC, Hennecke, S, Cosson, P, Bonifacino, JS. 1997. Interaction of endocytic signals from the HIV-1 envelope glycoprotein complex with members of the adaptor medium chain family. **Virology** 238:305-315.

Letourneur, F, Cosson, P. 1998. Targeting to the endoplasmic reticulum in yeast cells by determinants present in transmembrane domains. **J. Biol. Chem.** 273:33273-33278.

Cosson, P, Lefkir, Y, Démollière, C, Letourneur, F. 1998. New COP1-binding motifs involved in ER retrieval. **EMBO J.** 17:6863-6870.

Dogic, D, De Chasse, B, Pick, E, Cassel, D, Lefkir, Y, Hennecke, S, Cosson, P, Letourneur, F. 1999. The ADP-ribosylation factor GTPase-activating protein Glo3p is involved in ER retrieval. **Eur. J. Cell Biol.** 78:305-310.

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Benghezal, M, Gotthardt, D, Cornillon, S, Cosson, P. 2001. Localization of the Rh50-like protein to the contractile vacuole in *Dictyostelium*. **Immunogenetics** 52:284-288.

Ravel, K, de Chasse, B, Cornillon, S, Benghezal, M, Zulianello, L, Gebbie, L, Letourneur, F, Cosson, P. 2001. Membrane sorting in the endocytic and phagocytic pathway of *Dictyostelium discoideum*. **Eur. J. Cell Biol.** 80:754-764.

Cornillon, S, Dubois, A, Brückert, F, Lefkir, Y, Marchetti, A, Benghezal, M, De Lozanne, A, Letourneur, F, Cosson, P. 2002. Two members of the beige/CHS (BEACH) family are involved at different stages in the organization of the endocytic pathway in *Dictyostelium*. **J. Cell Sci.** 115:737-744.

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Brückert F, Decave E, Garrivier D, Cosson P, Brechet Y, Fourcade B, Satre M. 2002. *Dictyostelium discoideum* adhesion and motility under shear flow: experimental and theoretical approaches. **J Muscle Res Cell Motil.** 23:651-8.

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Froquet, R., Cherix, N., Birke, R., Benghezal, M., Camerini, E., Letourneur, F., Mösch, H.U., De Virgilio, C., Cosson, P. 2008. Control of cellular physiology by TM9 proteins in yeast and *Dictyostelium*. **J. Biol. Chem.** 283:6764-72.

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Blanc C, Charette SJ, Mattei S, Aubry L, Smith EW, Cosson P, Letourneur F. 2009. *Dictyostelium* Tom1 participates to an ancestral ESCRT-0 complex. **Traffic**, 10:161-

71.

Froquet, R., Lelong, E., Marchetti, A., Cosson, P. 2009. Dictyostelium discoideum: a model host to measure bacterial virulence. **Nature Protocols**. 4:25-30.

Marchetti, A., Lelong, E., Cosson, P. 2009. A measure of endosomal pH by flow cytometry in Dictyostelium. **BMC Res. Notes** 2:7. « [Highly Accessed](#) »

Orci, L., Ravazzola, M., Le Coadic, M., Shen, W.W., Demaurex, N., Cosson, P. 2009. From the Cover: STIM1-induced precortical and cortical subdomains of the endoplasmic reticulum. **Proc. Natl. Acad. Sci. USA** 106:19358-62.

Vallet-Gely, I., Novikov, A., Augusto, L., Liehl, P., Bolbach, G., Péchy-Tarr, M., Cosson, P., Keel, C., Caroff, M., Lemaitre, B. 2009. Hemolytic activity of *Pseudomonas entomophila*, a versatile soil bacterium, is linked to cyclic lipopeptide production. **Appl. Environmental Microb.** 76: 910-21.

Smith, E.W., Lima, W.C., Charette, S.J., Cosson, P. 2010. Effect of starvation on the endocytic pathway of Dictyostelium cells. **Euk. Cell**. 9:387-92.

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## REVIEWS

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